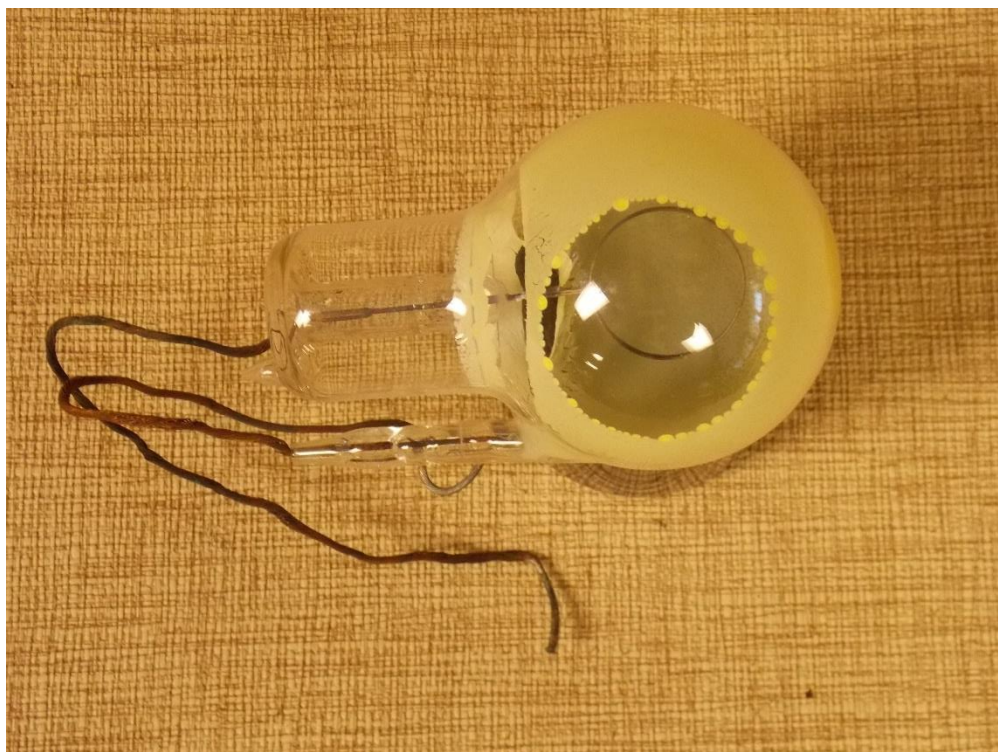


The

Call Letter

February 2021

Vol 47, #2



W7XAO (KWJJ TV) Photocell - 1929

The Northwest Vintage Radio Society

Post Office Box 82379
Portland, Oregon 97282-0379

The Northwest Vintage Radio Society is a non-profit historical society incorporated in the State of Oregon. Since 1974 the Society has been dedicated to the preservation and enjoyment of "Vintage Radio" and wireless equipment.

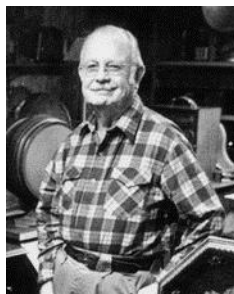
Membership in the Society is open to all who are actively interested in historic preservation. The dues are \$25.00 for domestic membership, due on January 1st of each year (prorated quarterly).

The Call Letter has been a monthly publication since 1974. It was originated with the founder, Bob Bilbie, and our first president, Harley Perkins. Through several editors and with the assistance of numerous society members, the Call Letter has continued to be a publication that informs members of the society's business and that supports the hobby of collecting, preserving, and restoring vintage radios.

Society meetings are held the second Saturday of each month at the Abernethy Grange Hall at 15745 S. Harley Ave. in Oregon City, Oregon. They convene at or about 9:30 AM for the purpose of displaying radios, conducting Society business, and exchanging information. Guests are welcome at all Society meetings and functions (except board meetings).

Other Society functions include guest speakers, auctions, radio shows, and radio sales which are advertised in the Call Letter and are held in and around Portland.

With each issue of the Call Letter, we remember Jim Mason, a charter member of the society who remained active until his death in 1999. A generous bequest from Jim's estate ensures the vitality of the Northwest Vintage Radio Society, and continued publication of the Call Letter.



Society Officers

President	Pat Kagi 360 909-7009	patkagi@yahoo.com
Vice President	Franklin Ouchida	crazykeychains@gmail.com
Treasurer	Ed Tompkins (360) 573-3895	edtomp@Q.com
Recording Sec'y	Liles Garcia (503) 649-9288	landn2@frontier.com
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Board member at large	Mike McCrow (503) 730-4639	soundmikey14@gmail.com
Librarian	Jeff LaDoe (503) 408-4446	flat4pdx@gmail.com
Call Letter Editor	Don Hanson 503 630 2720	vanguard4@lycos.com

On the Cover

Early photoelectric tube used for Portland TV transmission in 1929.
Photo supplied by Dick Howard and Art Redman

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Announcements

January 2021 meeting - Sat. Feb.13, 9:00 am - details in email

January 2021 Monthly Feature - Radios with a M in their name

January Tech Talk - None this month

January Tube of the Month - Mullard tubes

Leads and Needs - The Swap Shop is for members' classified ads.

Ads are free and can either be permanent or temporary.

Editor's Note - Please have March Call Letter contributions in by Sunday, March 28. Articles & Ads welcome. (Tube labels too).

(No Calendar of Events this month due to cancellations)

Visit our web site at:

www.nwvrs.com

Find us on Facebook:

www.facebook.com/nwvrs

President's Message for February 2021

Hopefully everyone is still being safe as it shouldn't be too long before we can all receive our Covid-19 vaccinations. As soon as we are able, we will have some fun events planned, so hang in there! While you are waiting, the old WRNO has been revived to an on-line tech talk meeting at 7:00 pm PST Wednesday evenings so watch your emails! Saturday, February 13th is also World Radio Day. Radio is still the largest consumed medium which reaches the largest audience worldwide. It is the voice of our society for the last 110 years and I hope that it continues to shape and be a part of our future.

Jan 13 2021 - How to add an input jack to a 1930s radio - Mike McCrow
<https://youtu.be/mJbnc2nXvE8>

Jan 20 2021 - Radio triage - Robbie Robinson
<https://youtu.be/BJEMUfgW9Jc>

Jan 27 2021 - Dim Bulb tester - Bruce Baur
<https://youtu.be/BCfxTdahInI>

Thanks and take care, Pat

VP's Message for February 2021

Zoom meeting Saturday February 13, 2021 at 9:00 AM

Anyone without email access that would like a phone call with urgent information. Please contact me by phone to be put on a call list.

Also: WRNZ Wednesday Radio Night Zoom every Wednesday at 7:00pm to 8:00pm. Zoom meeting sharing radio knowledge among friends. Please mute yourself as any background noises will interrupt the presentation, Unmute to talk.

Please let me know if you are interested in sharing your radio knowledge at a monthly Tech Talk or on weekly WRNZ which is also posted on our YouTube channel. Don't need to be multimedia even though it's a plus! Just share something you have discovered!

Please share your knowledge! Please help me keep this going!

It's just some thoughts.
Franklin Terry Ouchida

NWVRS Meeting Minutes - January 9, 2021

Recorded by Secretary Liles Garcia

President Pat Kagi called the meeting to order at 9:30 AM using the Zoom Software. Members pledged allegiance to our nation's flag. Members discussed the items that they need help with and items that they need. Our Society still needs a Secretary if anyone is interested. Members will try to set up a Zoom meeting about repairing radios. The program topic for today is radios that have an "L" in their name. Rick Walton showed the group a Lear Model 6614, a 6 tube AC/DC radio.

Larry Tobkin showed the group a "Liberty" model radio that he has restored. Ed Tompkins showed the group a Kolster Model K110 radio. Mike McCrow discussed the "Tube of the Month," a 1L6. The Program Topics for next month will be "Radios with Names Starting With an 'M' and "Tubes With an 'M' In Their Type Number."

The meeting was adjourned at 10:55 AM.

Tube of the Month: Mullard by Mike McCrow

The Mullard Radio Valve Company Ltd. was founded in 1920 by Capt. Stanley R Mullard. He was a research engineer for the British Admiralty. Soon the company was known as a premier manufacturer of electronic components. The Mullard Company was known worldwide for their high quality electronic parts. They produced handmade tubes or "valves" as they were called in England.

Before starting the company Mullard worked on high vacuum development for the Admiralty. He supervised the production of transmitting and receiving valves during World War I.

The Mullard Company increased to six factories in 1924 due to an increased demand for valves for domestic receivers. He financed the expansion by selling half of the shares of Mullard Radio Valve Co. to Phillips Gloeilampenfabrieken of Holland. By 1927 Phillips acquired the remainder of the company and used the Mullard brand name until 1988. Today the Mullard brand is owned by New Sensor, an American company that manufactures many hi-fi tubes. Many Mullard tubes are made in Russia and some are still made in Great Britain.

Vintage Mullard tubes made in the early days of hi-fi when Phillips still owned the company are sought after and demand a high price. Nos tubes like the KT88, 12AX7, EL84, 6L6 and many more.

Jim McCracken, SK

by Cathye McCracken, NWVRS members

Sonny Clutter: I don't know how many of you knew Jim as he resided in Crawfordsville, OR and did not attend very many of our meetings in the last few years of his membership. He was a long time NWVRS member and passed away last year. This is all I have about Jim. I hope you can post mention of this in the C-L. I only recently learned of this.

C. E. "Sonny" Clutter

Cathye McCracken: Jim loved collecting radios, hit and miss Engine's and lots of other collections. He had dementia the last few years and it was sad to see him forget How to fix radios or his engines. He never forgot people but definitely forgot the process of putting anything together.

Gary Marvin: I'm sorry to hear of the passing of Jim. I knew him years ago and I've been to his house many times...and it was packed with radios.

One day, while haunting an antique mall in Coos Bay, I found a fabulous Grebe console for sale, once owned by a doctor in the area. I called Jim and he came down and bought it!

Sonny:

One of the outstanding pieces his collection is a Grebe Console in a one-of-a-kind, custom, hand carved (in relief) Kiwi birds on the doors.

Cathye McCracken will be having the first of maybe several sales of her late Husband's radio collection. His collection consisted of all types of radios (plastic to console), radio parts, tubes and related stuff. The sale starts at 10:00 aye-em on Feb 13th, first come first serve. Cathye understands the market, does not expect eBay prices and is willing to negotiate and will consider reasonable offers, so take some cash.

NO EARLY BIRDS, NO PREVIEWS

Address: 26136 A St. Crawfordsville OR 97336

Cathye's email > cmcbug@hotmail.com

Please address any questions concerning this sale to Cathye.

Next page: This is an early picture of Jim. Thought you guys would recognize this one better than in the last year's. - Cathye



Wilbur Jerman's Phototube

By Art Redman

Oregonian (published as The Sunday Oregonian.) - August 19, 1928 - page 50
August 19, 1928 | Oregonian (published as The Sunday Oregonian.) | Portland, Oregon | Page 50

Portland radio folk will soon have television at their disposal when plans announced by Wilbur Jerman, technical director of KWJJ, mature. A short-wave television transmitter is being assembled and Mr. Jerman expects completion early next month. A consistent transmission schedule that will probably include three broadcasts a week is planned.

Announcement of Wilbur Jerman's TV station. Oregonian, Aug 19, 1928

Wilbur Jerman gave Dick Howard at a NWVRS meeting on March 8, 1975 a tube he used to transmit pictures by radio during early 1929. This, Jerman owned, television tube has no visible marking and thereby identification of this particular tube is difficult because the socket base is removed. The tube most identifiable feature is its' metal loop constructed of .005 inch thick molybdenum wire common to the Kerr or Karolus cell used in early television work. Several manufacturers of the August Karolus Cell are Telefunken, Radio Electrical Works, Cambridge Instrument Company and Eveready-Raytheon. It is doubtful Jerman used the German made Telefunken tube or system. The tube displayed by Dick Howard does not appear as a Raytheon, Cambridge, KH cell made by Radio Electrical Works, which has an Edison screw base, or any other manufacturer I can find except the V.F. Zworykin Cell. Maybe a member of the NWVRS can further identify the manufacturer and type number.

The *Oregonian* newspaper announced on February 3, 1929 that Wilbur Jerman obtained "permission to operate a television and still picture transmitter on 107 meters using his experimental station call, W7XAO". The Karolus photocell can only transmit and receive still pictures

scanned on a rotating drum or cylinder covered with photosensitive paper or radio-movies movies, which are films like regular movies. For the scanning of live subjects and models, a neon tube is required.

Mr. Jerman may have transmitted still pictures and radio movies from his residence at SE 2025 58th Avenue, Portland where he built his television transmitter. He was waiting for photoelectric cells according to the Oregon Journal of February 24, 1929.

The photoelectric cell is a glass tube or bulb containing neon or helium gas with most of the interior surface coated with a photoactive material, which emits electrons when struck by light. The two terminals of the cell are this interior coating serving as a cathode and a hoop of molybdenum wire acts as a plate, which is photo electrically neutral. A connected power source keeps the hoop positive and the coating negative. Light entering the cell makes the cell negative when electrons, which have negative charges, stream to the positive metal ring proportional to the incoming light. When placing a resistor in series with the power source and photo -cell, the voltage drop across the resistor is proportional to the light entering the cell then amplified by a three or four tube resistance-coupled amplifier. The capacitor between the grid of the first amplifier tube and phototube prevents direct current reaching the grid while passing the ac signals.

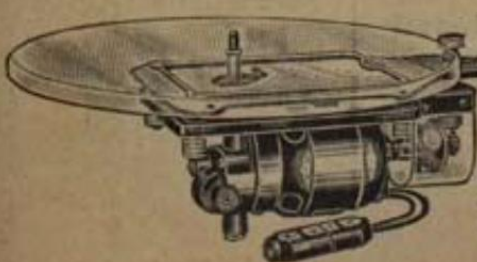
For moving pictures or live television broadcast Wilbur used the Daven Corporation Television lamp Type WT-2080 or an equivalent Eveready Raytheon Kino Lamp, universal or series motor and speed control. This television lamp is also in a C. Francis Jenkins receiver. The four different scanning discs available from Daven are 24, 36, 45, 48 lines or holes. Which one Jerman choose is unknown. The 45 hole disc by Daven had interlaced scanning. The ITT system had 60 holes requiring a disk of three foot in diameter.

The 48 hole disc became an industrial standard. The Standardization Committee of the Radio Manufacturers unanimously adopted for recommended as a standard for scanning 15 frames per second, 48 lines per picture frame, and scanning from left to right and top to bottom in consecutive sequence on October 9, 1928.

Jerman said on February 24, 1929 "That as television is still in experimental stages it will not be advisable for those interesting to invest in receiving equipment because when the problems confronting engineers are solved and television becomes practical, receiving equipment will probably differ in many respects from that in use today". This is the last mention of W7XAO in Oregon newspapers.

There is no known public announcement of when Jerman broadcasted visual images and on his station W7XAO. Radio movies are films, which are televised and transmitted to receivers and projectors. They appear only as silhouettes or half- tones at best. Why would anyone want to leave their residence to view a half tone radio movie or silhouettes broadcast from the an upstairs room in the Broadway Theater at 622 SW Salmon Street to the Fox movie screen downstairs when the original films are so much better which is not a good business model.

The last mention of W7XAO appeared in the magazine Radio News issue of October 1929. Short Wave Craft continued listing W7XAO as a short wave station until January 1931. Jerman may have transmitted voice and music on W7XAO or rebroadcasted am station KWJJ for short wave listeners.



Bodine Phonograph-Television Motors

Turntable Unit
 No. RC10 **\$23.89**
 List \$37.50 **Net**

Television
 No. TV20
 For 20" Disc
 No. TV12
 For 24" Disc
 List \$30.00
 Each **\$17⁶⁴**
Net

Page from Walter Rowan Co. catalog, 1929 No. 67

Bibliography:

“Awaits for Photoelectric Cells”, Oregon Journal, February 24, 1929, page 13.

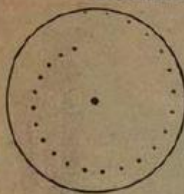
“Portland Man Will Operate Television Plant, The Oregonian, February 3, 1929, page 47.

“Portland Radio Folk”, The Oregonian, August 19, 1928, page 60.

Sterling, George E. The Radio Manual: D. Van Nostrand Company, Second Edition, 1929, pages 597 to 601, 623 and Daven Television kit pages 631 to 635.

Daven Television Products

SCANNING DISC



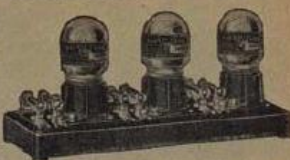
Daven Scanning Discs are designed to afford the best possible quality of image. Unless holes are laid out mathematically correct, the field will not be evenly illuminated causing light and dark lines to appear. A standard of one and one-half inch square picture has been adopted in order to take advantage of all the illumination that is obtain-

able from the Television Lamp.

T-24 24 holes.	List \$ 5.00	\$3.18 Net
T-36 36 holes.	List 7.50	\$4.77 Net
T-45 45 holes.	List 10.00	\$6.37 Net
T-48 48 holes.	List 10.00	\$6.37 Net
T-468 24, 36, 48 holes.	List 15.00	\$8.55 Net

TELEVISION AMPLIFIER

Daven Television Amplifiers T-3 and T-4 complete with resistors and coupling condensers. Electrically, it is the best type for Television Amplification. The Amplifier has "C" battery connections on all stages. The Amplifier should be equipped with 2 Daven HI MU-20 tubes and one or two Daven Output tubes depending upon the type of amplifier.



T-3 3 stages.	List \$12.50
T-4 3 stages with two output stages parallel.	List \$17.50

(Prices are less tubes.)

~~\$8.07~~ Net
~~\$11.15~~ Net

AMPLIFIER TUBES FOR TELEVISION

Daven tubes should not be confused with the ordinary "all purpose" tubes—they have been designed and built for special purposes and are considered by leading engineers to be the best for the purposes intended.

MU-20, the first high amplification tube to be placed on the market, is still considerably the best for all stages preceding output tube and for detector where great amplification is required.

List \$2.25.	Net \$1.55
MU-6 10 mill.	\$2.42 Net
List \$3.50	
AC-71 20 mill.	\$2.42 Net
List \$3.50	
AC-10 10 mill.	\$6.17 Net
List \$9.00	



TELEVISION RECEIVER

The Daven Television Receiver has been designed to assist the dealer in the sale of Daven Television apparatus. It is a complete Television receiver and will receive pictures requiring different size disc. Apertures for 24, 36, 45, 48, line pictures are provided. The Daven Television Receiver is completely wired and includes Neon Lamp, Disc, Rheostat, Bushing, Cables, T-4 Amplifier, etc.

R-240 with 24 hole Disc.	List	\$63.70 Net
R-360 with 36 hole Disc.	less	
R-450 with 45 hole Disc.	tubes	
R-480 with 48 hole Disc.	\$100.00	
R-4680 Comb. disc.	List \$105.00.	\$66.89 Net

TELEVISION KIT



Universal Motor AC-DC. List \$27.50. Net ~~\$17.51~~

In order to assist the novice in selecting the proper apparatus for constructing a simple yet efficient television receiver, the Daven Essential Kit is offered. The kit contains the following apparatus: Neon Lamp, Universal Motor, Scanning Disc, Rheostat, Three Stage Television Amplifier Motor, Bushing and Complete Instructions for wiring and constructing. Tubes not included.

T-240 with 24 line disc.
T-360 with 36 line disc.
T-450 with 45 line disc.
T-480 with 48 line disc.

LIST \$60.00

~~\$38.22~~ Net

T-4680 with Comb. disc. List \$65.00. NET ~~\$41.40~~

TELEVISION TUBE

These lamps are designed to operate with an output tube in series. Will give excellent results with a current of 20 milliamperes or less. Where extremely bright illumination is required for maximum results, the tube may be loaded up to

80 milliamperes, by means of suitable output tubes singly or in parallel. Plate area 1 1/2" square.

~~\$8.58~~ Net

LIST PRICE \$12.50

TYPE T-2080



The Great American Romance by Dan Howard

In 1991 our display at the Northwest Car Collector's Show was themed "The Great American Romance." Seems "Valentinish."



Radiolaguy's Monthly Showcase

By Sonny Clutter

C. E. "Sonny" Clutter; AKA: the RadiolaGuy

Web Site: <http://www.radiolaguy.com> Email: radiolaguy@outlook.com

No new item this month but Sonny's site is always worth a peek!!

Swap Shop

Ads are free and can be permanent, or 3-month, with an asterisk added each month for tracking. Contact editor to extend.

Please contact the following members to be trained in Radio Repair:

Jan and Glenn Anderson	425 750 7600	Longview
Bruce Baur	503 708-4537	Milwaukee
Blake Dietze	360 944-7172	Vancouver
Mike McCrow	503 730-4639	Aloha
Ed Tompkins	360 573-3895	Vancouver

WANTED: Radios made in Oregon. I do have some to trade. Thanks in advance. Dick Howard (503) 775-6697 dhoward27@comcast.net

FOR SALE: B.F. Goodrich Model R459 AM + SW (big console) \$20
Also a Philco Model 20 Table Top for \$70 and a Silvertone Model 6074 1930
Tabletop \$50. Have a good day. Call Robbie Robinson 503 810 0565

For Sale: Various radio chassis'
including Philco 20, 60, and 90 and
misc. others, many with full complement
of tubes. Also well-made home brew
and 2 armature speakers with possible
good drivers. Home brew \$25, any
chassis \$20, speaker \$5 each.
Everything pictured for \$60 but must
take all. Located in Mt. Angel, OR. Ray Nelson 503 845-2897 ***



FOR SALE: Hammarlund HQ-180 general coverage short wave receiver, 18
tube triple conversion. Plays well on all bands and in excellent condition.
Asking \$165.00 or best offer. Ray Nelson 503 845-2897
<radiatoray39@gmail.com> ***

1,500 45 RPM records for sale. A lot of late 1950's and early 1960's Doo Wop records. \$300.00 for all. Electronically restored General Motors model 140 console radio. Very beautiful cabinet. \$300.00 - Steve K. (541) 388-9978 *** ➔



There are 3 pieces of equipment that I am hoping to find in the local area:

General Radio Standard Signal Generator, Type 805

Hallicrafters SX-12 Commercial Skyrider

Hallicrafters, S-37 (or S-27/C, S-27/CA)

Jeff Quay jeff_quay@hotmail.com ***

chev33radio@comcast.net

I collect and restore record players / phonographs with tubes, any and all table tops, portables, even Consoles! If you have one with tubes that is in your way, and that you would like to get rid of or sell cheaply, please get in touch with me. I also will repair or restore yours if you need help in that way. Email me a picture, or give me a call.

Thanks! John Livingston 503-708-2987

Military radios:

2 ea. R392 receivers

2 ea. R662 transceivers

1 ea. AM3349 400 watt RF amplifier

These are complete but untested and came from the estate of a very active local ham. Lots of cables and manuals too. \$1200 for everything Tektronix 575 curve tracer. Includes the high voltage testing mod and Tek cart and original manual. Does not power on - no further troubleshooting has been done. - \$350

Bill Holeman <bpasok@live.com>

You maybe know about Playthings of the Past whose owner/proprietor, Gary schneider died recently <http://www.oldradioparts.com/>. Gary had a text list of his inventory. the new owner posted some pictures.

[Vintage Electronic Test Equipment \(bbtvtestequipment.com\)](http://bbtvtestequipment.com)

Scroll down. And down. As someone on the philco phorum said, Holy Chrome, Paul ! And I thought I had this addiction bad !

[Inside Playthings of the Past \(philcoradio.com\)](http://philcoradio.com) - Bob Dieffenbach

World Radio Day - February 13

Submitted by Pat Kagi

From the United Nations' Radio Day web page:

<https://www.un.org/en/observances/radio-day>

World Radio Day 2021 (WRD 2021) celebrates radio as part of humanity's history by following the various developments in our society and adapting its services. As the world changes, so does radio. Thus, during the Covid-19 pandemic, radio made it possible, for example, to ensure continuity of learning, to fight against misinformation, and to promote barrier gestures.

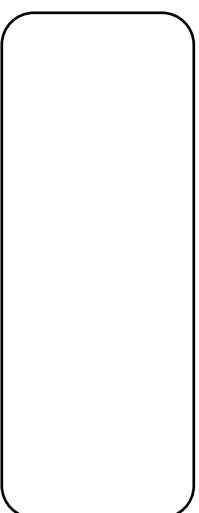
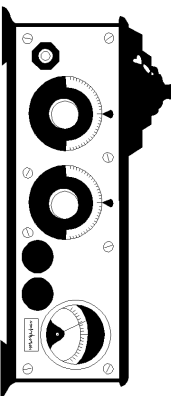
"New World, New Radio" is, therefore, an ode to the resilience of radio. It is a tribute to its capacity for perpetual adaptation at the rate of societal transformations and listeners' new needs. Accessible anywhere and anytime, radio reaches a broad audience. It presents itself as an arena where all voices can be expressed, represented, and heard hence why radio is still the most consumed medium worldwide today.

On the occasion of World Radio Day 2021 (WRD 2021), [UNESCO](#) calls on radio stations to celebrate this event's 10th anniversary and the more than 110 years of radio through three sub-themes.

- Evolution: The world changes, radio evolves – radio is resilient and sustainable;
- Innovation: The world changes, radio adapts and innovates- radio adapts to new technologies and remains the go-to medium of mobility, accessible everywhere and to everyone;
- Connection: The world changes, radio connects - radio services our society during natural disasters, socio-economic crises, epidemics, etc.



NW Vintage Radio Society
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FIRST CLASS MAIL